

WHAT IS CLAIMED IS:

- Sub 24 >
1. Hybrid maize seed designated 38A24, representative seed of said hybrid 38A24 having been deposited under ATCC accession number \_\_\_\_\_.
  2. A maize plant, or its parts, produced by the seed of claim 1.
  3. Pollen of the plant of claim 2.
  4. An ovule of the plant of claim 2.
  5. A tissue culture of regenerable cells of a hybrid maize plant 38A24, representative seed of said hybrid maize plant 38A24 having been deposited under ATCC accession number \_\_\_\_\_, wherein the tissue regenerates plants capable of expressing all the morphological and physiological characteristics of said hybrid maize plant 38A24.
  6. A tissue culture according to claim 5, the cells or protoplasts being from a tissue selected from the group consisting of leaves, pollen, embryos, roots, root tips, anthers, silks, flowers, kernels, ears, cobs, husks, and stalks.
  7. A maize plant, or its parts, regenerated from the tissue culture of claim 5 and capable of expressing all the morphological and physiological characteristics of hybrid maize plant 38A24, representative seed having been deposited under ATCC accession number \_\_\_\_\_.
  8. The maize plant of claim 2 wherein said plant is male sterile.
  9. A method for developing a maize plant in a maize plant breeding program using plant breeding techniques, which include employing a maize plant, or its parts, as a source of plant breeding material, comprising: obtaining the maize plant, or its parts, of claim 2 as a source of said breeding material.
  10. The maize plant breeding program of claim 9 wherein plant breeding techniques are selected from the group consisting of: recurrent selection, backcrossing,
- Sub 21
- Sub 25 >
- Sub A17

~~pedigree breeding, restriction fragment length polymorphism enhanced selection, genetic marker enhanced selection, and transformation.~~

- Sub B1
11. A maize plant, or its parts, wherein at least one ancestor of said maize plant is the maize plant, or its parts, of claim 2, said maize plant capable of expressing a combination of at least two 38A24 traits selected from the group consisting of: a relative maturity of approximately 96 based on the Comparative Relative Maturity Rating System for harvest moisture of grain, exceptional yield, above average dry down, above average late season plant health, consistent yield performance under seasonal drought and high temperature stress, above average early season growth, above average test weight, above average grain quality, solid resistance to Northern Leaf Blight, solid resistance to Goss's Wilt, solid resistance to Stewart's Wilt, excellent resistance to head smut, silage with superior readily available energy and whole plant digestability, and particularly suited to the Northwest, Northcentral, Northeast, Western, and Drylands regions of the United States, Canada, and Western Europe.
- Sub B2
12. A hybrid maize plant according to claim 2, wherein the genetic material of said plant contains one or more transgenes.
13. A method for developing a maize plant in a maize plant breeding program using plant breeding techniques, which include employing a maize plant, or its parts, as a source of plant breeding material, comprising: obtaining the maize plant, or its parts, of claim 12 as a source of said breeding material.
- Sub a27
14. ~~The maize plant breeding program of claim 13 wherein plant breeding techniques are selected from the group consisting of: recurrent selection, backcrossing, pedigree breeding, restriction fragment length polymorphism enhanced selection, genetic marker enhanced selection, and transformation.~~
- Sub B2
15. A maize plant, or its parts, wherein at least one ancestor of said maize plant is the maize plant, or its parts, of claim 12, said maize plant capable of expressing a combination of at least two 38A24 traits selected from the group consisting of: a relative maturity of approximately 96 based on the Comparative Relative Maturity Rating System for harvest moisture of grain, exceptional yield, above average dry down, above average late season plant health, consistent yield performance under

seasonal drought and high temperature stress, above average early season growth, above average test weight, above average grain quality, solid resistance to Northern Leaf Blight, solid resistance to Goss's Wilt, solid resistance to Stewart's Wilt, excellent resistance to head smut, silage with superior readily available energy and whole plant digestability, and particularly suited to the Northwest, Northcentral, Northeast, Western, and Drylands regions of the United States, Canada, and Western Europe.

16. A hybrid maize plant according to claim 2, wherein the genetic material of said plant contains one or more genes transferred by backcrossing.

17. A method for developing a maize plant in a maize plant breeding program using plant breeding techniques, which include employing a maize plant, or its parts, as a source of plant breeding material, comprising: obtaining the maize plant, or its parts, of claim 16 as a source of said breeding material.

18. The maize plant breeding program of claim 17 wherein plant breeding techniques are selected from the group consisting of: recurrent selection, backcrossing, pedigree breeding, restriction fragment length polymorphism enhanced selection, genetic marker enhanced selection, and transformation.

19. A maize plant, or its parts, wherein at least one ancestor of said maize plant is the maize plant, or its parts, of claim 16, said maize plant capable of expressing a combination of at least two 38A24 traits selected from the group consisting of: a relative maturity of approximately 96 based on the Comparative Relative Maturity Rating System for harvest moisture of grain, exceptional yield, above average dry down, above average late season plant health, consistent yield performance under seasonal drought and high temperature stress, above average early season growth, above average test weight, above average grain quality, solid resistance to Northern Leaf Blight, solid resistance to Goss's Wilt, solid resistance to Stewart's Wilt, excellent resistance to head smut, silage with superior readily available energy and whole plant digestability, and particularly suited to the Northwest, Northcentral, Northeast, Western, and Drylands regions of the United States, Canada, and Western Europe.

Sub E1 } 20. A maize plant, or its parts, having all the morphological and physiological characteristics of the plant of claim 2.

Sub E2 } 21. The maize plant of claim 20 wherein said maize plant is male sterile.

22. A method for developing a maize plant in a maize plant breeding program using plant breeding techniques, which include employing a maize plant, or its parts, as a source of plant breeding material, comprising: obtaining the maize plant, or its parts, of claim 20 as a source of said breeding material.

Sub A47 } 23. The maize plant breeding program of claim 22 wherein plant breeding techniques are selected from the group consisting of: recurrent selection, backcrossing, pedigree breeding, restriction fragment length polymorphism enhanced selection, genetic marker enhanced selection, and transformation.

Sub B4 } 24. A maize plant, or its parts, wherein at least one ancestor of said maize plant is the maize plant, or its parts, of claim 20, said maize plant capable of expressing a combination of at least two 38A24 traits selected from the group consisting of: a relative maturity of approximately 96 based on the Comparative Relative Maturity Rating System for harvest moisture of grain, exceptional yield, above average dry down, above average late season plant health, consistent yield performance under seasonal drought and high temperature stress, above average early season growth, above average test weight, above average grain quality, solid resistance to Northern Leaf Blight, solid resistance to Goss's Wilt, solid resistance to Stewart's Wilt, excellent resistance to head smut, silage with superior readily available energy and whole plant digestability, and particularly suited to the Northwest, Northcentral, Northeast, Western, and Drylands regions of the United States, Canada, and Western Europe.

Sub C13 } 25. A hybrid maize plant according to claim 20, wherein the genetic material of said plant contains one or more transgenes.

26. A method for developing a maize plant in a maize plant breeding program using plant breeding techniques, which include employing a maize plant, or its parts, as

a source of plant breeding material, comprising: obtaining the maize plant, or its parts, of claim 25 as a source of said breeding material.

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27. ~~The maize plant breeding program of claim 26 wherein plant breeding techniques are selected from the group consisting of: recurrent selection, backcrossing, pedigree breeding, restriction fragment length polymorphism enhanced selection, genetic marker enhanced selection, and transformation.~~

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28. A maize plant, or its parts, wherein at least one ancestor of said maize plant is the maize plant, or its parts, of claim 25, said maize plant capable of expressing a combination of at least two 38A24 traits selected from the group consisting of: a relative maturity of approximately 96 based on the Comparative Relative Maturity Rating System for harvest moisture of grain, exceptional yield, above average dry down, above average late season plant health, consistent yield performance under seasonal drought and high temperature stress, above average early season growth, above average test weight, above average grain quality, solid resistance to Northern Leaf Blight, solid resistance to Goss's Wilt, solid resistance to Stewart's Wilt, excellent resistance to head smut, silage with superior readily available energy and whole plant digestability, and particularly suited to the Northwest, Northcentral, Northeast, Western, and Drylands regions of the United States, Canada, and Western Europe.

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29. A hybrid maize plant according to claim 20, wherein the genetic material of said plant contains one or more genes transferred by backcrossing.

30. A method for developing a maize plant in a maize plant breeding program using plant breeding techniques, which include employing a maize plant, or its parts, as a source of plant breeding material, comprising: obtaining the maize plant, or its parts, of claim 29 as a source of said breeding material.

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31. ~~The maize plant breeding program of claim 30 wherein plant breeding techniques are selected from the group consisting of: recurrent selection, backcrossing, pedigree breeding, restriction fragment length polymorphism enhanced selection, genetic marker enhanced selection, and transformation.~~

32. A maize plant, or its parts, wherein at least one ancestor of said maize plant is the maize plant, or its parts, of claim 29, said maize plant capable of expressing a combination of at least two 38A24 traits selected from the group consisting of: a relative maturity of approximately 96 based on the Comparative Relative Maturity Rating System for harvest moisture of grain, exceptional yield, above average dry down, above average late season plant health, consistent yield performance under seasonal drought and high temperature stress, above average early season growth, above average test weight, above average grain quality, solid resistance to Northern Leaf Blight, solid resistance to Goss's Wilt, solid resistance to Stewart's Wilt, excellent resistance to head smut, silage with superior readily available energy and whole plant digestability, and particularly suited to the Northwest, Northcentral, Northeast, Western, and Drylands regions of the United States, Canada, and Western Europe.

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